

UNITED STATES OF AMERICA
DEPARTMENT OF DEFENSE
ARMED FORCES EPIDEMIOLOGICAL BOARD

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MEETING

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FRIDAY,

DECEMBER 12, 1997

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The meeting was held in Room 3092,
Building 40, Walter Reed Army Institute of
Research, Washington, D.C. at 0800 a.m., GERALD
F. FLETCHER, M.D., President, presiding.

PRESENT:

GERALD F. FLETCHER, M.D., President
COL VICKY L. FOGELMAN, USAF, BSC,
AFEB Executive Secretary
DR. JIM ALLEN, Member
DR. BAGBY, Member
PROFESSOR SUSAN BAKER, Member
DR. JAMES CHIN, Member
COL FINNEGAN, Member
DR. L. JULIAN HAYWOOD, Member
DR. RICHARD JACKSON, Member
CDR WAYNE McBRIDE, Member
COL FRANCIS L. O'DONNELL, Member
DR. DENNIS M. PERROTTA, Member
DR. POLAND, Member
DR. ARTHUR L. REINGOLD, Member
DR. ROSEMARY SOKAS, Member
DR. CLADD STEVENS, Member
LCDR TEDESCO, Member
CAPT DAVE TRUMP, Member
DR. RONALD J. WALDMAN, Member
DR. NEIL WEINSTEIN, Member

PRESENT (Continued):

CAPT CRAIG HYAMS, Speaker
DR. FRAN MURPHY, Speaker

ALSO PRESENT:

COL ENGLER
COL JOHN GARDNER
CAPT GREG GRAY
DR. HADFIELD
LCDR MEG RYAN
DR. MORROW

I-N-D-E-X

<u>ITEM</u>	<u>PAGE</u>
Recruit Health Assessment Program	6
CAPT Hyams	6
Dr. Murphy	15

1 P-R-O-C-E-E-D-I-N-G-S

2 (0803 a.m.)

3 MODERATOR FLETCHER: I thank everyone
4 for being on time. I think just a couple of
5 things. I'd like to thank and acknowledge again,
6 as usual, Ms. Jean Ward and, of course, Dr.
7 Colonel Fogelman, who has done a wonderful job
8 putting this meeting together.

9 There are a lot of little things that
10 need to be done. I think every time we have the
11 meetings, they are very precisely done. And,
12 Jean, you do a lot of work and don't get in the
13 limelight too much. We thank you very much.

14 (Laughter.)

15 MODERATOR FLETCHER: She and I talk on
16 the phone a lot and sort of dissertate back and
17 forth. I usually yield to her when she says, "We
18 should do this." I say, "Whatever you say. I
19 work for the military."

20 We are going to try to begin on time.

21 We have one presentation here. We will have
22 adjournment thereafter for the subcommittees.
23 Environmental Control and Health Maintenance will
24 meet together for a session and Infectious
25 Disease separately.

26 We will have after that an executive

1 session, which is very important. As you
2 remember, we need to select a president-elect,
3 who will take immediate office, so to speak and
4 begin their role in the next meeting, probably
5 the Summer meeting in '98. So if there are no
6 other things, Vicky, do you have any comments?

7 EXECUTIVE SECRETARY FOGELMAN: The
8 only thing I have is that we'll be having the
9 Executive Committee. We'll go right into the
10 Executive Committee meeting at 11:30 and won't
11 take a break for lunch. So for any of the Board
12 members or consultants who want to have a boxed
13 lunch, you need to order that before you go into
14 the subcommittee sessions.

15 MODERATOR FLETCHER: And we do plan to
16 be out by 1:00 p.m., 1300. Thank you.

17 MODERATOR FLETCHER: Okay. This
18 morning I'm happy to present two speakers: first
19 of all, Captain Craig Hyams, who is the head of
20 the Epidemiology Division at the Naval Medical
21 Research Institute, and Dr. Fran Murphy, who is
22 the Director of the Environmental Agent Service
23 in the Office of Public Health and Environmental
24 Hazards at the VA. They will be talking about a
25 new proposal for a new recruit health assessment
26 program.

1 Dr. Hyams?

2 CAPT HYAMS: Thank you, Colonel
3 Fogelman.

4 RECRUIT HEALTH ASSESSMENT PROGRAM

5 CAPT HYAMS: Today, this morning I'm
6 going to talk about a proposal for a recruit
7 health assessment program and explain something
8 about this proposal. The goal of the proposal is
9 to establish a program for the routine collection
10 and computerization of baseline health data from
11 all recruits, including active duty, reserve, and
12 National Guard, both enlisted and officers.

13 This computerized baseline database
14 would contain information, demographic
15 information, medical and psychological data,
16 prior occupational exposures before entering the
17 military, and various risk factors for adverse
18 health outcomes.

19 The purpose of this proposed program
20 is to provide -- the first purpose is to provide
21 DoD and VA physicians with accessible medical and
22 risk factor data to aid in clinical diagnosis
23 among active-duty troops and veterans. It's
24 really to aid in diagnosis.

25 Obviously clinicians are always
26 interested in seeing a change in condition and

1 knowing what signs and symptoms have been chronic
2 and which have changed. And oftentimes this sort
3 of baseline data is not available. And with a
4 computerized database, much of this data could be
5 available to our DoD and VA physicians.

6 The second purpose of this proposal is
7 to develop improved preventive medicine
8 strategies for military populations using
9 longitudinal health data.

10 There's been a lot of discussion
11 within DoD and also here in AFEB about
12 longitudinal databases. And the way to set up a
13 longitudinal database is, we propose, to begin
14 with military experience. You need baseline data
15 in order to establish this sort of longitudinal
16 database.

17 A third purpose of this program is to
18 establish a baseline database to be used in
19 future research studies to evaluate health
20 problems among active-duty troops and veterans.
21 Obviously here the example that comes to mind is
22 the Gulf War illnesses.

23 We've had a great deal of trouble here
24 in the United States and also in Britain and
25 Canada explaining the symptomatology amongst some
26 of our Gulf War veterans. And one of the big

1 missing pieces of this whole puzzle has been in
2 many cases the lack of pre-deployment data,
3 health data.

4 If we had a system in place where we
5 have a large amount of accessible data, it would
6 have helped us greatly in understanding the
7 clinical findings of the VA Persian Gulf health
8 registry and from the DoD CCP. And obviously
9 this sort of data would have been invaluable in
10 understanding the data that's being generated
11 from the epidemiologic studies that are being
12 conducted right now amongst Gulf War veterans.

13 What are the proposed methods for this
14 program? What we are proposing is that an
15 electronically scannable questionnaire be
16 administered to all recruits within the first
17 seven days of basic training.

18 This questionnaire should take less
19 than two hours to complete, and that's the entire
20 process. That's from the time that the recruits
21 are explained the reason for the questionnaire
22 until the time they finish answering all of the
23 questions. That's in order to minimize the
24 disruption in the recruit centers.

25 The survey instrument should be
26 compatible with the SF-93 and 88. This is the

1 standard form, government form, that's used in
2 prospective recruits to collect medical data and
3 physical examination data. It's also used during
4 a Service member's career at periodic examination
5 times. And also -- and this is something I've
6 just learned about recently -- it's used in other
7 government agencies.

8 Any kind of baseline health database
9 should at least capture the sort of data that we
10 have been acquiring over the last several
11 decades. And so it should be compatible with the
12 SF-93 and 88.

13 It should also be compatible with the
14 HEAR and with the discharge examination database
15 that's being developed between VA and DoD. This
16 is a database with medical information when
17 Service members leave active duty and enter the
18 VA system.

19 And, as you probably all know, the
20 HEAR system is a way to acquire periodic health
21 information that's been instituted within DoD.
22 So by combining a baseline health database with
23 the HEAR system with the data that is generated
24 when active-duty personnel enter the VA system
25 and with the various VA databases, we could have
26 a longitudinal health database on our military

1 population from the time they enter the military
2 until the time that they are in the VA system.

3 The questionnaire used for this
4 program should be added to the Service member's
5 record. Also, the original questionnaire and
6 computerized database should be maintained at a
7 centralized location with sufficient staff to
8 ensure quality control.

9 Okay. Let me talk about the
10 historical precedence. Self-administered
11 questionnaires have been used to screen recruits
12 at least since World War I. There's actually a
13 very large literature about this.

14 There have been various systems that
15 have been in place for 80 years, paper and
16 pencil, mainly self-administered questionnaires
17 that have been used amongst recruits.

18 For the most part; in fact, in every
19 case that I've been able to identify so far,
20 these questionnaires have been used to screen
21 recruits for psychological problems that would
22 result in early separation from recruit training,
23 early separation from the military. And they
24 have not been conceptualized as a baseline
25 database to be used for clinical purposes or for
26 preventive medicine purposes.

1 Currently the current system for
2 screening recruits for psychological problems is
3 called N-AFMET, the Navy-Air Force Medical
4 Evaluation Test, which has been renamed BEST now.

5 And it's a three-phase program for screening
6 Navy, the Air Force, and Marine Corps recruits.
7 It's not used in the Army system.

8 In the first phase of N-AFMET or BEST,
9 a history opinion inventory questionnaire is
10 administered to recruits, the HOI. It's about 70
11 questions, and it can be completed very rapidly.

12 These are true/false questions. They're fairly
13 easy to answer. It's a scannable questionnaire.

14 And, again, it's used to identify recruits with
15 psychological problems. It's a screening tool.

16 Also -- and this is an outstanding
17 program that I want to talk about and really sort
18 of demonstrate the feasibility of what we're
19 proposing. There are the ship sailors health
20 inventory project at Naval Hospital at Great
21 Lakes.

22 And all enlisted Navy recruits, they
23 all go through the Great Lakes center. When they
24 come in for the first day or two of training,
25 they complete an extensive questionnaire, health
26 questionnaire, that is in a scannable format.

1 And it's read into a computer system.

2 This questionnaire collects medical
3 data, risk factor data, other types of data.
4 It's quite extensive. It duplicates the SF-93
5 and 88 and also collects some additional
6 information and, again, demonstrates the
7 feasibility of using scannable health
8 questionnaires amongst recruits.

9 We're proposing something similar to
10 this that would be used DoD-wide, not just within
11 the Navy, but that would also be somewhat more
12 extensive than the ship sailors health inventory.

13 It has more questions that we feel are needed to
14 follow troops during their active-duty career and
15 when they enter the VA system.

16 Let me mention something about the
17 current issues that need to be dealt with over
18 the next year. The obvious one is questionnaire
19 and database development.

20 We've been actually working on the
21 questionnaire. We have a working group within
22 DoD, VA, and HHS. And we have been working on
23 the questionnaire for a couple of months and have
24 made substantial progress.

25 Obviously after the questionnaire is
26 developed, there is going to have to be extensive

1 pilot testing for length, acceptability, and
2 validity.

3 There's one other major issue that
4 needs to be dealt with. What we're proposing is
5 a baseline database that can be used for clinical
6 preventive medicine purposes, as I've said,
7 during a military person's career and long after,
8 when they enter the VA system. We're not
9 proposing a screening tool here. That's a
10 different goal.

11 However, the sort of questions that
12 you would want to ask in any kind of baseline
13 database, many of them are similar to the sort of
14 questions you'd also want to ask for screening.
15 And so there's an overlap between these two
16 different goals.

17 So it's possible to use any kind of
18 initial questionnaire for acquiring baseline
19 data. It's also possible to use it for screening
20 purposes. And there need to be some decisions
21 made about whether or not this survey instrument
22 would also be used for that purpose.

23 In the ship sailors health inventory,
24 they use their computerized survey instrument to
25 speed medical in-processing and entry into the
26 CHCS system. It's actually saved them time. And

1 it's also used for screening.

2 It's used for intervention purposes,
3 to identify recruits with smoking problems, for
4 smoking intervention. And it's also used to
5 identify recruits who have medical, psychological
6 problems that may result in early separation.

7 I'm going to say something about the
8 future issues down the line with this proposal if
9 we go forward with it. Obviously one of them is
10 linkage with other DoD and VA databases. Health
11 Affairs is a large program now working on linking
12 all of these databases. There's a lot of them.

13 There's a lot of data collected
14 amongst prospective recruits at the MEPS centers.

15 There's data collected in the recruit centers.
16 And there's lots of data collected through your
17 military career and also when you enter the VA
18 system. And for us to properly follow the health
19 of our veterans and take care of their health, it
20 needs to be some linkage to these databases.

21 There's also the issue of involvement
22 of our NATO countries. We discussed this
23 extensively with Colonel Finnegan. The British
24 and the Canadians have had as much trouble as we
25 have had to explain some of the illnesses amongst
26 their Gulf War veterans.

1 They're actively considering now
2 whether they want to institute a baseline
3 computerized health database themselves in order
4 to try to answer some of these questions
5 post-deployment. If they do that, that would be
6 very valuable.

7 We usually deploy in these major
8 deployments with the British, Canadians. We're
9 in Bosnia together with them now. Certainly we
10 are in the Gulf together.

11 And although we deploy together, our
12 experiences are somewhat different. These
13 differences really help us sort out some of the
14 post-deployment health issues. If they had a
15 similar baseline database, it would obviously
16 help us a lot in understanding the health
17 problems amongst our veterans.

18 Okay. I have one last overhead about
19 the questions we're going to pose to AFEB, but
20 I'm going to wait on that. Dr. Murphy is going
21 to give the VA perspective on this proposal. And
22 then we'll list the questions for AFEB.

23 DR. MURPHY: There may be some
24 questions about why VA would like to get involved
25 in this since it's really a recruit health
26 surveillance database. Why would VA want to be

1 involved at the beginning of the process?

2 Well, in fact, there are some very
3 good reasons why VA and DoD need to work together
4 on health issues from the time a soldier or
5 airman or sailor need to come into the Service
6 through the real severe career.

7 First of all, we're deploying
8 reservists more frequently than we were in the
9 past. And they move in and out of the VA and DoD
10 health care systems with increasing frequency.

11 So we need to have a consistent way of monitoring
12 their health and doing health surveillance and
13 actually answering their health care needs and
14 concerns.

15 In addition, there are other
16 activities that are currently ongoing where VA
17 and DoD have set up systems to work
18 collaboratively. Many of you may already know
19 that VA and DoD top managers meet on a monthly
20 basis through a VA-DoD executive council to work
21 on issues like core pharmacy, a consolidated and
22 consistent computerized health record that would
23 be the same between VA and DoD.

24 Our discharge exam program is just
25 being kicked off. It was piloted in four sites
26 around the country. And we found that the

1 discharge examination could either be done in a
2 DoD health care facility or in a VA health care
3 facility and serve both of our purposes so that a
4 military member who was being discharged from the
5 Service could get a discharge examination and
6 health assessment and, if necessary, we could use
7 that for compensation purposes and saving time
8 for both the military member and resources for
9 our federal health care system.

10 It's important in a time of shrinking
11 personnel and budgets to minimize the duplication
12 and rework that we do in VA and DoD. And so more
13 and more we're trying to work together to partner
14 and try to have our systems consistent and
15 useable for both military and VA purposes.

16 It served us well in a number of
17 programs. Let me give you one example. There
18 were slightly less than three dozen individuals
19 who were friendly fire victims and have retained
20 depleted uranium shrapnel after their service in
21 Desert Shield and Desert Storm.

22 Rather than set up two different
23 health surveillance systems to try to figure out
24 what health impact that retained shrapnel had,
25 the health surveillance program is resident at
26 the Baltimore VA. And both active duty and

1 veterans who are no longer with the military come
2 there for an annual screening.

3 The database or registry is resident
4 at that facility. And in doing that, we can
5 share the information, have one system that will
6 follow those veterans through their active-duty
7 career and out into their VA health care
8 situations and also have a consolidated database.

9 We think that this has the same issues
10 related to it. There needs to be a consistent
11 system throughout the military members' careers
12 and the rest of their veteran health care.

13 We also need to recognize that there
14 are some other issues that are impacting on the
15 military and the VA health care systems. VA is
16 going through a fundamental change in the way we
17 deal with veterans' health care.

18 In the past, it was a system that was
19 very reactive. There was not much attention to
20 customer or patient satisfaction. We really
21 didn't try to predict what veterans would need or
22 what they wanted in their health care. In fact,
23 it was a pretty unresponsive system.

24 We're trying to fundamentally change
25 the way we deliver health care to veterans with
26 an increased customer satisfaction focus, focus

1 on the patients' needs. And in order to do that,
2 we need to have population data.

3 Right now we have a lot of databases
4 that tell us about the users of the VA health
5 care system, but we have no way to predict who
6 might be coming into our system in the next ten
7 years and what their health needs would be and be
8 able to proactively plan for that and assure that
9 we have the kinds of services that will allow us
10 to provide high-quality, timely, accessible
11 health care to those veterans.

12 This database, the compiled
13 information, may help us do that in the future.
14 It will also allow us to look at issues of health
15 promotion and disease prevention.

16 Both the military and VA have a vested
17 interest in having a healthy and fit force. We
18 would like to see the health of veterans'
19 populations improve over time.

20 One of our challenges is that right
21 now the veterans who use our system tend to be
22 less healthy than the general population. And
23 we'd like to see ways to improve and promote
24 their health over their entire life.

25 I think that I don't have to talk to
26 this group the potential research and

1 epidemiologic advantages of having this kind of a
2 database. It would allow us to have baseline
3 information that will help us understand post-war
4 illnesses but also help us understand the whole
5 spectrum of disease in veterans' populations in
6 the future.

7 And, with that short introduction,
8 we'd like to open up with a couple of questions
9 to the group. And that is: Should this program
10 be established by DoD to obtain baseline health
11 data for military recruits and for use in
12 diagnosis, health promotion and disease
13 prevention programs and potentially for
14 epidemiologic research in the future?

15 Obviously there are some issues that
16 need to be worked out. And we would welcome the
17 AFEB's input. And would you be willing to
18 evaluate the recruit health surveillance survey
19 instruments and help us pilot it and assess the
20 effectiveness?

21 CAPT HYAMS: I think we'll reopen it
22 for questions now. And I think we go into
23 subgroups.

24 MODERATOR FLETCHER: I really think
25 that this is one of the first times I've seen,
26 really, the VA system working with Defense in a

1 very cohesive type of way. And I think we'll
2 work with you on this. Certainly from my sense
3 and I'm sure many others, this is an excellent
4 approach to this.

5 Maybe some comments or questions? Dr.
6 Stevens?

7 DR. STEVENS: I'm sorry for coming in
8 late, but did you say that this would be
9 self-administered?

10 CAPT HYAMS: Well, there are different
11 ways to do it now. In the ship sailors health
12 inventory, it's a directed sort of questionnaire.
13 There's a corpsman there who goes through the
14 questions with the recruits in a large room and
15 goes through each question.

16 We could do it that way, which would
17 limit the number of questions we could ask, or we
18 could have someone explain the questionnaire and
19 be available to answer questions but have a
20 largely self-administered questionnaire. We
21 haven't totally decided on that yet.

22 I think you could have sort of a
23 combination of the two. You could have someone
24 explain each category of questions, make sure
25 everyone gets through those questions, but you
26 don't have to necessarily read out each question

1 to every recruit. You could make the
2 questionnaires quite simply. They obviously
3 collect a lot of information.

4 DR. STEVENS: One of the reasons I ask
5 is sort of in a sense a trick or a trap question.

6 I was at a meeting at the Heart, Lung and Blood
7 Institute a couple of weeks ago where we were
8 looking at how we could do better at getting
9 information about risk factors from blood donors
10 or getting them to admit possible risk factors
11 more accurately.

12 There was a survey scientist that was
13 part of this group that was reviewing these
14 issues. And he looked at the self-administered
15 part of our routine questionnaire for blood
16 donors, which is I think about the equivalent of
17 this part of your questionnaire. And his comment
18 was: Well, in terms of self-administered, if you
19 had a college degree, you may be able to get
20 accurate information from people.

21 So I think the issue of how this is
22 administered in terms of getting accurate
23 information is really important. One of the
24 things you might consider, although doing this in
25 the context of the numbers of people that come
26 through as recruits, there is another technique,

1 which is using computers with audio-type. You
2 could do that even with little laptops, but I
3 don't know how you'd do that in the context of
4 military recruit, getting numbers, huge numbers,
5 through.

6 But I think the part of what I'm
7 saying is the pilot phase of this I think is
8 going to be really critical. And thinking about
9 strategies for how you'll get the most accurate
10 information is really important.

11 CAPT HYAMS: Let me just say I think
12 there are 300,000 recruits coming through our
13 system every year. So we've discussed the
14 possibility that a computer-administered
15 questionnaire just might not be feasible with
16 that number of people.

17 That said, you know, people come in
18 the military in lots of different ways. The
19 enlisted personnel go through a limited number of
20 recruit centers. That's the bulk of the military
21 forces. But officers come in in lots of various
22 different types of ways.

23 Regardless of how the questionnaires
24 are administered in the recruit camps, it's going
25 to have to be largely self-administered. It's
26 going to have to be fairly simple and for anyone

1 because people come in in different ways and
2 they're going to get this questionnaire in
3 different sorts of surroundings.

4 We can work out some of those issues I
5 think during pilot testing.

6 DR. STEVENS: Just to make one more
7 point, too. Some of the questions obviously are
8 a little bit sensitive in the sense of people not
9 wanting to admit it. And some of the computer
10 systems they're now data-accumulating with the
11 computer interface and even audio, somebody
12 reading the questions through an audio system,
13 tend to get more admission of, say, risk factors
14 or things that are potentially sensitive.

15 CAPT HYAMS: Yes. Let me say
16 something about that, about sensitive questions
17 and the veracity of questions. A lot of
18 sensitive questions are already asked of most
19 recruits in the HOI and the inventory that's used
20 to screen for psychological things and a lot of
21 systems like that. They don't seem to have that
22 much trouble with it, those questions. They're
23 fairly always responsive.

24 Also the timing of this sort of
25 questionnaire, we've chosen the first recruit
26 training. There's a general feeling out there

1 that the MEPS centers don't get accurate data
2 because they are too anxious. They're in the
3 military. Their home is civilian clothes.
4 They're being evaluated. They're helped by the
5 recruiters. And you just don't get as accurate
6 responses.

7 There's also a general feeling that
8 after a week's worth of training, that you start
9 developing a certain amount of military
10 indoctrination. You don't get as honest answers
11 at that time. And the reason that it's pretty
12 much centered on the first two days of training.

13 There's actually some data on that.
14 The N-AFMET program has done pressing of their
15 survey instrument at MEPS centers the first two
16 days of training. And what they have found is
17 that as they get honest responses, they feel in
18 the first two days of training that, even after
19 one week, they don't get as honest responses.
20 The kids tend to check negative off on
21 everything.

22 Also, the potential recruits tend to
23 check negative off on everything at the MEPS
24 centers. But those first few days, when they're
25 in this new surrounding, you know, they've
26 entered, they've finally made it to the military,

1 --

2 DR. STEVENS: Military training?

3 CAPT HYAMS: -- they get what they
4 feel are honest responses. And that's the reason
5 for choosing that time frame. There's been a lot
6 of question about that.

7 MODERATOR FLETCHER: Dr. Chin?

8 DR. CHIN: Just sort of a follow-up on
9 this point about truthful answers. Looking at
10 some of these questions, "Have you been
11 bed-wetting consistently after the age of 12?"
12 and "When you get angry, I always burst out
13 crying," I can't see a recruit giving an honest
14 answer to that. But I'm sure you've had some
15 experience.

16 My whole question here, though, is
17 related to most of these questions are sort of
18 "Yes"/"No." And if I go through answering some
19 of these, you might want to put in a
20 "Yes"/"No"/either "Unsure." And you might get
21 some little more honest answers that way.

22 CAPT HYAMS: Let me say those are not
23 our questionnaires. Those are the ones that are
24 being used now.

25 DR. CHIN: Now.

26 CAPT HYAMS: Just as an example --

1 DR. CHIN: Have they been evaluated?

2 CAPT HYAMS: Do you feel like in the
3 recruit setting, you get honest answers to
4 questions like that about bed-wetting and crime
5 and --

6 LCDR RYAN: Not always. The reason
7 those particular ones are in there is because
8 they're separatable issues. The utility of the
9 tool when it was first developed, it's like you
10 said. Enter people in CHCS. But also it's just
11 actual things that would get people separated
12 because chronic enuresis is a separatable
13 condition.

14 So it depends on somebody's motivation
15 to say, "No." That's sort of an unfortunate
16 question in a way because if they say, "Yes,"
17 they go home.

18 EXECUTIVE SECRETARY FOGELMAN: But
19 they're being honest.

20 CAPT HYAMS: That's not necessarily a
21 question that we would ask everybody in the
22 surveillance system, enuresis. It's something
23 that we might not be interested in but for
24 screening purposes, they might be.

25 MODERATOR FLETCHER: I believe Colonel
26 Gardner was next.

1 COL GARDNER: Colonel Gardner, USUHS.

2 I'm a great advocate of baseline data.

3 I think that's really important to have good
4 quality baseline data. But worse than no data is
5 unreliable data. And I'm not sure that you can
6 collect reliable data from recruits because there
7 are too many issues.

8 I mean, if I say this, will they skip
9 me out? If I say such subsequently, will it
10 impact or if I say such, if I don't say it, then
11 when I have problems with it later, will this be
12 an issue? If I do say it now, I have problems
13 with it later, I'll get discharged for having
14 something that existed prior to Service because I
15 admitted it back here on this questionnaire.

16 I mean, there are so many issues
17 coming in to recruits that influence how you
18 respond to questions like that and what you admit
19 and what you don't admit. I think it's really a
20 difficult problem.

21 I think perhaps at the end of recruit
22 training or after, they're more secure in their
23 careers. You might collect more accurate data.
24 But selecting it from the beginning makes me real
25 nervous.

26 CAPT HYAMS: Let me just say that

1 that's actually I think an argument for
2 separating the baseline data that is from --

3 COL GARDNER: Do them both.

4 CAPT HYAMS: You would do that, but in
5 order to reassure the people completing this
6 questionnaire, it wouldn't impact on their
7 separating the recruits in training, that's what
8 I would think for separating them, those two --

9 COL GARDNER: Say, "Well, look, now
10 you've got the problem. Just" --

11 CAPT HYAMS: Let me make another
12 point. What we're trying to do here is we're
13 trying to capture the military experience. We're
14 trying to find out: What are the health effects
15 of being in the military, short term and long
16 term?

17 You have to draw a clear line, I
18 think, between civilian life and military life.
19 And that line is drawn with people entering the
20 military. If you wait a few months or a year or
21 whatever, you're going to miss that whole period
22 of military experience.

23 And also I think if you look at the
24 data from the N-AFMET group, they feel like they
25 get fairly honest responses in the very beginning
26 of recruit training. But even after one week,

1 they don't get as honest responses.

2 DR. WEINSTEIN: I want to make the
3 comment about pilot testing. Frequently pilot
4 testing of questionnaires is limited to looking
5 for the questions that are skipped or incorrect
6 skip patterns or double answers or asking people
7 at the end of administration whether they have
8 any problems or questions. That wouldn't be
9 sufficient in this kind of situation.

10 You can do things where you have one
11 group that fill out the questionnaire with their
12 names being recorded as they would normally be in
13 another group, fill it out totally anonymously to
14 see if those sorts of questions do get answers
15 permanently, as frequently in the identified
16 situation.

17 You can also use the questionnaire in
18 the sort of mass written version of numbers, take
19 a subset of those people and in not the sensitive
20 questions, let's say the more medical questions,
21 go through them with the person one on one
22 clarifying the questions to see if you get
23 different results.

24 So there are a number of ways where
25 you get the sense of the reliability of the data
26 and the ability to get information without making

1 it a matter of opinion.

2 DR. MURPHY: When we talked about the
3 pilot testing, we discussed whether we needed to
4 administer the questionnaire in several different
5 forms, whether it was a paper and pencil form
6 versus the telephone versus the computerized. We
7 hadn't really gotten to the point of making
8 decisions on that.

9 DR. WEINSTEIN: These are in a sense
10 mini experiments to test various ideas about
11 whether people are willing to say various things
12 on the questionnaire. I think that should be
13 seen as there, not just checking the readability
14 of the effort, the understandability of the
15 questionnaire, but all of these other issues
16 people are raising.

17 MODERATOR FLETCHER: Dr. Sokas?

18 DR. MURPHY: I'd like to just make one
19 comment as part of this, on John Gardner's
20 statement, before we go on because I don't want
21 this to look like it's going to be a stand-alone
22 database that will never be correlated with
23 anything that happens during the rest of the
24 Service person's career.

25 Obviously there are serial health
26 screenings that go on during military service and

1 then in the veterans' health arena. It would be,
2 we would hope, the opportunity to set up some
3 relational databases that would be to track over
4 time the health status of these individuals, both
5 for clinical purposes and, if necessary, for
6 recruit purposes.

7 I think the issues you raise are real.

8 We have two alternatives. We do nothing and
9 still have all the same questions about the
10 health of the military populations or we try to
11 develop the best machine possible with a view to
12 tease out some of the risk factors that may be
13 important in development of either recognizable
14 disease, diseases of unexplained symptoms, multi
15 symptoms.

16 MODERATOR FLETCHER: Dr. Sokas?

17 DR. SOKAS: I think that as remarkable
18 as the collaboration between DoD and the VA and
19 how positive that is is the fact that you guys
20 are asking for AFEB's serious input.

21 And I think that what we might be able
22 to do, for example, would be to each subcommittee
23 take this and give those kinds of suggestions in
24 a very detailed, thorough-going manner so that,
25 in fact, that gets the AFEB really involved with
26 this because we have been talking over the last

1 day about missed opportunities for that. And
2 this is a real opportunity for us, A).

3 B) A second part of that is sometimes
4 within HHS, there are not huge amounts of
5 cross-information. And I was just wondering if
6 one of the groups that's helping you with
7 questionnaire development is NIOSH because they
8 have an incredible amount of expertise available.

9 And if you ask HHS, they might not immediately
10 think NIOSH.

11 MODERATOR FLETCHER: Commander Ryan?

12 LCDR RYAN: Yes. We know we get
13 better data than at MEPS, who asks the same
14 Standard Form 93 questions that we ask. We get a
15 lot more positive responses that we can
16 collaborate on more.

17 The other thing that I think is good
18 is because it's administered by the corpsmen, we
19 actually can not only explain what the question
20 means but explain -- and we do -- sometimes the
21 impact of the question.

22 So we can tell them it's okay to tell
23 us about their smoking history. Nothing they say
24 is going to kick them out. It's okay to tell us
25 about their history of alcohol use. Nothing they
26 say is going to kick them out in those questions.

1 And we can even say it's okay to tell
2 us about enuresis because it's better to know now
3 in case there's a problem and some people get
4 waived. It's okay.

5 So we try to encourage the more honest
6 answers if we do get more. And the behavior
7 questions, like smoking an alcohol, have been
8 invaluable to us. It's been really a great boon,
9 even in boot camp, as to how to help that along.

10 MODERATOR FLETCHER: Dr. Reingold?

11 DR. REINGOLD: Yes. Two points. One
12 is that we heard yesterday about some very nice
13 work on databases being developed. And I do
14 think it's really important to think early on how
15 to make sure this can be linked easily to these
16 other database outcomes. I don't know if you're
17 doing that, but I think that's a key point, using
18 the data labor.

19 I think the other question I would
20 have is depending on what these questions are
21 whether it makes sense for particular groups,
22 things like Gulf War, pre-deployment and
23 post-deployment sorts of things, whether a
24 one-time survey whenever it occurs is adequate or
25 whether some of these questions should be
26 repeated periodically.

1 CAPT HYAMS: Let me just say something
2 about that. I think deployment surveillance is
3 essential, but you just don't always have time to
4 do it. I did surveillance during Operation
5 Desert Shield five months before a war. We did a
6 lot of surveillance during that time period. We
7 may not have that in the future.

8 It's important I think -- we discussed
9 this yesterday -- to have some surveillance
10 systems in place to collect data before the Board
11 goes out, before people are rushing around for
12 hazardous deployment.

13 Most enlisted personnel will be on
14 tour for three or four years. With this baseline
15 database, when they come in the military with a
16 lot of information, it will be useful through
17 most of their active-duty careers. And this is
18 just one way to sort of routinely collect data
19 that obviates all of these problems you face when
20 people go off to hazardous wars.

21 DR. REINGOLD: I'm not suggesting
22 asking the questions again before people go off
23 on a hazardous tour. I'm suggesting that perhaps
24 some of these questions might be in the future
25 asked every five years or every three years so
26 that, in fact, you track --

1 MODERATOR FLETCHER: Dr. Trump?

2 CAPT TRUMP: They mentioned that it's
3 compatible with the HEAR. We heard yesterday
4 about the health risk assessments. That's what
5 that is. It's periodic health enrollment
6 assessment that's going to be done, issued on an
7 annual basis, not linked to deployments. But it
8 will have some of those same questions and
9 hopefully at least comparable questions.

10 I think the one thing to think about
11 is that most of what they're talking about are
12 questions that are being asked already. They're
13 just being asked. They're being captured on a
14 piece of paper. We can't do anything with them.

15 And it's not so much whether it's -- I
16 mean, as an epidemiologist, you have to think
17 about whether the answer is valid or not valid,
18 but questions are being asked already. You can
19 at least use what's there if it can be captured
20 in some way that is useful.

21 And I think the other thing is that a
22 lot of the utility of this is not on looking at
23 individual but in looking at populations that
24 we're responsible for while they're on active
25 duty.

26 I think the realization is that the

1 nation now expects us to be responsible for the
2 health or at least accountable for the health of
3 those veterans potentially for the rest of their
4 lives. And it has a variety of impacts, some on
5 the information we collect, some on the VA, some
6 of the issues we talked about yesterday of
7 immunizations.

8 What may not be cost-effective as far
9 as hepatitis B vaccine for the active military
10 force when you consider it over the life of the
11 veteran may be cost-effective to the government
12 if we start looking at DoD and VA combined and
13 what VA -- the issue right now is hepatitis C
14 virus infection. In fact, that's something that
15 can be addressed when they're at least evaluated
16 at the beginning of the military service.

17 It will have impact. It may not be
18 felt on DoD's budget or DoD's health care system
19 certainly from VA. And it's an effort to capture
20 data that's out there but we aren't able to use
21 right now.

22 MODERATOR FLETCHER: Should we move
23 on? Do you have other data to present or are we
24 ready to open it up?

25 CAPT HYAMS: Yes, sir.

26 CDR McBRIDE: I think the idea has a

1 lot of merit. I do have some concerns about a
2 couple of the points that have been raised about
3 timing and content of the instrument.

4 I do have a question initially. Will
5 this be administered also to officer accessions
6 as well?

7 CAPT HYAMS: Yes.

8 CDR McBRIDE: Okay. Secondly, the DoD
9 88 and 98 are, as I understand it, under
10 revision. My concern would be that there may be
11 unnecessary duplication between some of the
12 questions that are asked on that and the
13 instrument that you're developing. So just be
14 aware of that.

15 And then, lastly, it would appear to
16 me that this might have more value for the VA
17 if something like this is administered as one
18 prepares to exit the military.

19 Have you considered offering this to
20 them and, as they prepare to leave their active
21 duty and prepare to perhaps avail themselves of
22 the health benefits of the VA?

23 DR. MURPHY: I think that this has
24 value for prevention, disease prevention,
25 instruments in addition to just simply
26 registration or involvement in the VA or

1 compensation. I'd like to see serial entries.

2 There is a lot of work going on that
3 goes beyond this. In addition to the HEAR
4 instrument being used in DoD, we're now I
5 understand talking with DoD about implementing
6 the HEAR within VA also to do the same kind of
7 risk factor assessment.

8 I think there is a lot of opportunity
9 over time to have an impact, a positive impact,
10 on the health of the veteran population. And
11 we'd like to see that opportunity.

12 There are a lot of differing needs
13 that are having an impact on this issue, but I
14 think it is an important one right now and very
15 timely. And I hope that it will have an impact.

16 CAPT HYAMS: Let me say something
17 briefly. The SF-93 was revised last year. The
18 revision hasn't gotten out to many medical
19 centers. I don't think it's under revision right
20 now.

21 We're not saying totally do away with
22 this SF-93. It can still be administered at the
23 vet centers or wherever, but what we're proposing
24 is a computerized database, not just the paper
25 and pencil questionnaires that we have now that
26 are often lost or misplaced or are not available

1 on an aggregate to look at large print when it's
2 large number of veterans.

3 Also, I think we can do a lot better
4 with this SF-93 data. It just doesn't collect as
5 much information as most of us would feel is
6 needed. It's just not adequate.

7 MODERATOR FLETCHER: Dr. Baker?

8 PROFESSOR BAKER: Would this replace
9 the ship sailors health inventory?

10 CAPT HYAMS: Well, I think ship
11 sailors health inventory is the forerunner of
12 this. I think it's an outstanding system. I
13 think it shows that this can be done in a recruit
14 setting. Whether it will replace it or not, we
15 don't know. We would like to see something
16 similar to that instituted DoD-wide, but we think
17 we should ask more questions than the current
18 program we have.

19 There are other questions that we need
20 to ask that are important to the lifetime of a
21 military member's career and also in the system.
22 It certainly is --

23 MODERATOR FLETCHER: Dr. Sokas?

24 DR. SOKAS: Yes. Just a quick little
25 comment. It's not so terrible to have some
26 duplication in the beginning because then you can

1 use that for your reliability assessment. So I
2 wouldn't worry about that.

3 MODERATOR FLETCHER: Dr. Gardner?

4 COL GARDNER: Just I think in large
5 part, my concerns would be addressed simply by
6 readministering the very same questionnaire in
7 the same way at the time of graduation.

8 MODERATOR FLETCHER: Dr. Stevens?

9 DR. STEVENS: Just to reinforce this
10 effort, I think this is terrific. The idea is
11 terrific. It's extremely important to do this, a
12 tremendous opportunity. Just I just want to make
13 sure that it's done in the most effective way
14 possible.

15 MODERATOR FLETCHER: Any more
16 questions, comments? Dr. Haywood?

17 DR. HAYWOOD: Well, all the caveats
18 about reliability of self-assessment
19 notwithstanding, I think this is a reasonably
20 good initial proposal. Then the answer to the
21 two questions should be yes.

22 MODERATOR FLETCHER: I really think we
23 ought to have all of our subcommittees look at
24 this, I think, and input. Yes, we would very
25 much like to do some types of things. I think,
26 speaking for everyone, we're very interested.

1 Any other questions or comments? Dr.
2 Engler?

3 COL ENGLER: I just wanted to make a
4 comment that you might want to talk about 15
5 years ago Kaiser when it was on the West Coast
6 did some lovely work also with Hawaii with the
7 fact that adolescents were trying to do health
8 screening questioning.

9 The best modality was the touch-screen
10 questionnaire with interactive educational and
11 cartoon kind of thumb things. They found sexual
12 behavior and other habits.

13 They got much more honest answers than
14 where they were asked by either a pencil-pushing
15 type of questionnaire or by the actual examiner
16 because particularly it's a generation that's
17 been raised on video games. And they relate to
18 computers in a far more friendly way, frankly,
19 than paper questionnaires or people questioners.

20 And the technology is not that
21 expensive. Think about efficiency of data
22 capture. You don't have to have anybody enter
23 the data either.

24 MODERATOR FLETCHER: Other questions
25 or comments? Yes, sir?

26 DR. HADFIELD: Dr. Hadfield at AFIP.

1 It seems to me that you've in the very
2 formative stages of this project and that based
3 on information yesterday, your database would fit
4 in very nicely with DMSS.

5 I would encourage you to get with
6 those people and figure out how to make your
7 database marry into that so that all of members'
8 enrollment history can be collected and accessed
9 through this system.

10 EXECUTIVE SECRETARY FOGELMAN: If I
11 could maybe comment on that? There is a proposal
12 now in DoD for a Service man's life cycle
13 concept, if you will, which is basically going to
14 be capturing data from different databases
15 throughout a Service man's career.

16 If this proposal is accepted, we will
17 be adding that to that Service man's life cycle
18 concept, which will do exactly what you're
19 saying, meaning that that data will be accessible
20 as well as other data. The HEAR data, for
21 example, will also be accessible.

22 DR. HADFIELD: I guess my concern was
23 that we're starting, at least my perception is,
24 we're getting a big scatter in the databases out
25 there. And we need to have some way to access
26 this centrally from all the points.

1 EXECUTIVE SECRETARY FOGELMAN: Right.

2 And that's being addressed.

3 MODERATOR FLETCHER: Other comments,
4 questions?

5 (No response.)

6 MODERATOR FLETCHER: This is the last
7 but not least of our presentations. I really
8 think is a thing we can respond to, all the
9 committees. I'm real pleased.

10 (Applause.)

11 EXECUTIVE SECRETARY FOGELMAN: Okay.
12 We'll be doing our breakouts. For those who want
13 a box lunch, make sure you order it on the way to
14 the subcommittees.

15 Again, the Environmental Health and
16 the Health Maintenance committees will meet
17 together in the room next door, where the coffee
18 is. And the Infectious Disease Committee will
19 meet here.

20 We will start the Executive Committee
21 at 11:30 unless everybody finishes earlier and
22 decides they want to start earlier. If you let
23 me know, we can start earlier.

24 MODERATOR FLETCHER: The majority of
25 my group, the big crowd, is in here.

26 EXECUTIVE SECRETARY FOGELMAN: So,

1 with that said, I think we are ready.

2 (Whereupon, the foregoing matter was

3 concluded at 0851 a.m.)